

**CONGESTION PRICING FROM SOUP TO NUTS:
Leveraging Federal Opportunities and Managing Expectations**

**TRB 2006 Annual Meeting Workshop
Sunday, January 22, 2006
Hilton Washington Hotel
International Ballroom East**

Objectives:

- To provide transportation practitioners and researchers an understanding of new federal opportunities and current congestion pricing issues facing states and regions;
- To help in managing the expectations of policy leaders and citizens on the financial and travel demand management (TDM) potential of pricing projects;
- To offer practical solutions in addressing technical, policy, institutional and political issues related to congestion pricing strategies;
- To offer opportunities to get advice on your own projects from experts and practitioners with experience in designing and implementing pricing projects.

Description:

This workshop is designed for those who are involved in or considering congestion pricing projects, as well as those who just want to learn more about "all this fuss about pricing." Learn about how to leverage new federal opportunities for congestion pricing in SAFETEA-LU. These SAFETEA-LU programs include 1) the Value Pricing Pilot Program, 2) Operational programs (Express Lanes Demonstration Program, High Occupancy Toll Vehicles – HOV to HOT Lanes), and 3) Infrastructure programs (Interstate System Construction Toll Pilot Program, Interstate System Reconstruction and Rehabilitation Toll Pilot Program, Section 129 Agreements)

The workshop will also help practitioners and researchers understand and manage expectations of policy leaders and citizens on the opportunities, limitations and trade-offs of congestion pricing strategies such as HOT Lanes, express lanes and managed lanes as both financing and travel demand management (TDM) tools. The workshop will offer participants an opportunity to discuss your own projects and issues or to get an assessment by experts on the potential for pricing in your state or region. As always, this workshop will provide a tremendous opportunity to meet with people who are evaluating and implementing pricing projects -- whether you are new to pricing or not.

Workshop Agenda:

- 8:30 a.m. Welcome and Introductions
- 8:45 Tolling and Pricing in SAFETEA-LU
Moderator: Mark Muriello, The Port Authority of New York & New Jersey
 1. Overview of Tolling Opportunities – Wayne Berman, FHWA
 2. Tolling for Demand Management:
 - Express Lanes Demonstration Program – Wayne Berman, FHWA
 - High Occupancy Toll Vehicles (HOV to HOT Lanes) – Jessie Yung, FHWA
 - Value Pricing Pilot Program – Patrick DeCorla-Souza, FHWA
 3. Infrastructure programs – Greg Wolf, FHWA

- Interstate System Construction Toll Pilot Program
 - Interstate System Reconstruction and Rehabilitation Toll Pilot Program
 - Section 129 Agreements
- 9:30 Discussant Panel
- Jeff Squires, PARSONS
 - Thomas W. Pelnik III, Virginia Department of Transportation
 - Katie Nees, Carter Burgess
 - John Berg, Retired FHWA
- 9:50 Participant Discussion
- 10:30 Break
- 10:45 Stakeholders Panel
- Moderator: Lee W. Munnich, Jr., Humphrey Institute of Public Affairs, University of Minnesota
- C. Randal Mullett, CNF, Inc.
 - Lewison Lee Lem, California State Automobile Association
 - Arthur L. Guzzetti, American Public Transportation Association
 - Michael A. Replogle, Environmental Defense
 - Jacquelyne Dolores Grimshaw, Center for Neighborhood Technology
- 11:30 Participant Discussion
- 12:00 Lunch
- 1:15 p.m. Pricing as a Tool for Demand Management
- Moderator: TBD
- Todd Alexander Litman, Victoria Transport Policy Institute, Canada
 - Eric Schreffler, ESTC
- 1:45 Participant Discussion
- 2:15 Break
- 2:30 Pricing as a Tool for Transportation Finance
- Moderator: Bill Stockton, Texas Transportation Institute
- Matthew MacGregor, Texas Department of Transportation
 - Alfred Harf, Potomac Rappahannock Transportation
 - Daniel L. Dornan, AECOM Consult Inc.
- 3:00 Participant Discussion
- 3:30 Bridging the Gap between Pricing as a Demand Management and Finance Tool
- Moderator: David H. Ungemah, Texas Transportation Institute, Texas A&M University
- Kenneth Orski, Innovation Briefs
 - Stuart Anderson, UrbanTrans Consultants, Inc.
- 4:00 Participant Discussion
- 4:30 Wrap Up and Adjourn

Revised November 7, 2005

ABE25 - Congestion Pricing

Paper or Conference Sessions

422 (MMS06-001)

Congestion Pricing and Equity: What Are the Concerns and How Can Project Sponsors Address Them?

Gloria Jean Jeff, Michigan Department of Transportation, presiding

Sponsored by Committee on Congestion Pricing ; Committee on Women's Issues in Transportation; Committee on Public Involvement in Transportation; Committee on Environmental Justice in Transportation

Equity concerns are a prominent element of the debate about value pricing in projects across the country, from California to Florida to Minnesota. Despite such prevalence, however, many project sponsors find themselves unsure how to respond effectively to equity criticisms raised by stakeholder groups, elected officials, and the media. This session is designed to stimulate dialogue among panelists and audience members about the equity implications of value pricing, so that participants will leave with a better understanding of the many potential equity implications inherent in value pricing, as well as some effective (or ineffective) ways that project sponsors can address them. To accomplish these aims, the session is designed as follows: three panelists will give brief presentations laying out basic information to stimulate informed discussion by all session participants, and in the following hour there will be discussion between the audience and the panelists.

Framework for Understanding Equity Implications of Value Pricing (P06-0591)

Asha Weinstein, San Jose State University

Variable-Priced Facilities: Who Uses Them and Are They Fair? (P06-0593)

Angela Jacobs, Federal Highway Administration

Managing Equity Concerns in Minnesota (P06-0594)

Kenneth Buckeye, Minnesota Department of Transportation

229 (MMS06-002)

Toll-Financed Public-Private Partnership Roads: Searching for Common Ground

Patrick Jones, International Bridge, Tunnel, and Turnpike Association, presiding

Sponsored by Committee on Congestion Pricing ; Committee on Taxation and Finance; Committee on Transportation Economics

Interest in public-private partnerships and tolling is growing significantly as a promising means to accelerate highway development and enhance transportation system efficiency. Some see promise in tolling and PPPs for financing improved public transportation, as well as mitigation of adverse environmental and community impacts. Others are concerned that PPPs may be used to weaken environmental and labor protections, and reduce the role of local officials and the public in transportation decision-making. This session will explore diverse perspectives on new toll roads developed through PPPs, seeking to clarify points of agreement and divergence. Are there approaches to PPPs and tolling that might deliver value for all transportation stakeholders? How can these best be advanced?

PPP Toll Roads: Achieving or Defeating Environmental and Community Protections?

(P06-0180)

Michael A. Replogle, Environmental Defense

PPP Toll Roads and the Environment: Allies, not Enemies (P06-0181)

Robert W. Poole, Reason Foundation

PPPs in Transportation: A Labor Perspective (P06-0182)

Jeffrey Rosenberg, Amalgamated Transit Union

Private Sector Provides More Than Money: It Brings New Ideas (P06-0183)

Gary Groat, Fluor International Ltd.

630 (MMS06-004)

Truck Lanes and Road Pricing, Part 1: The Reality of Today (Part 2, Session 682)

William Stockton, Texas Transportation Institute, presiding

Sponsored by Committee on Congestion Pricing ; Committee on Motor Vehicle Size and Weight; Task Force on Trucking Industry Research; Committee on High-Occupancy Vehicle Systems

With the growing interest in managed lanes as a strategy that addresses a variety of corridor needs and user groups, this session probes the institutional and practical implementation challenges associated with innovative road pricing applications related to freight movement. There will be a moderated roundtable discussion with representatives from current projects and the trucking industry. Panel members will describe their experiences and share perspectives on proposals for truck-only toll lanes and truck pricing initiatives on toll facilities.

Atlanta Truck-Only Toll Lane Study (P06-0720)

Erik Steavens, Georgia State Road and Tollway Authority

Ohio Turnpike Truck Pricing Experience (P06-0721)

Gordon D. Proctor, Ohio Department of Transportation

Strategies to Move Truck Traffic Toward Off-Peak Hours: Experiences and Study Findings (P06-0724)

Jose Holguin-Veras, Rensselaer Polytechnic Institute

Trucking Industry Perspective (P06-0726)

Randy Mullet, CNF, Inc.

738 (MMS06-005)

Quantifying Revenue Impacts of Different Managed-Lane Operating Approaches

Robert W. Poole, Reason Foundation, presiding

Sponsored by Committee on Congestion Pricing ; Committee on Transportation Economics

Future policy choices will have to balance funding objectives with transportation objectives. Recent studies of whole networks of managed lanes, with calculations of the relative revenue that could be raised by various operating approaches, have been carried out for the Minnesota and Colorado Departments of Transportation and the Georgia State Road and Tollway Authority. This session features those three studies, comparing and contrasting their policy choices, forecasting techniques, findings, and revenue expectations. The panel will describe how agencies reached a comfort level with preliminary revenue forecasts for decision making and will address prospects for public-private partnership arrangements based on early revenue projections.

Denver Managed-Lane Study (P06-0604)

Edward J. Regan, Wilbur Smith Associates

Minneapolis-St. Paul Managed-Lane Study (P06-0605)

Jeffrey N. Buxbaum, Cambridge Systematics, Inc.

Atlanta Managed-Lane Study (P06-0606)

Rosa Rountree, State Road and Tollway Authority

703 (MMS06-006)

Adapting High-Occupancy-Vehicle Lanes for High-Occupancy Toll Use: Recent Experience and Research

David Schumacher, San Diego Association of Governments, presiding

Sponsored by Committee on Congestion Pricing ; Committee on Bus Transit Systems;

Committee on High-Occupancy Vehicle Systems

Initially, the three project panelists will discuss the three issues they each believe is most important to their HOV to HOT conversion project. The last speaker will describe research to be completed in August 2005 on a specific approach to evaluate an existing or proposed HOV lane to determine the prudence of implementing a HOT lane. The presentations will be followed by audience-panelist discussion.

Three Critical Issues Faced in Seattle (P06-0608)

Charles E. Prestrud, Washington State Department of Transportation

Value Pricing Education and Outreach Model: I-394 MnPASS Community Task Force (06-2250)

Kenneth Buckeye, Minnesota Department of Transportation

Lee W. Munnich, University of Minnesota

Three Critical Issues from the Transit Perspective (P06-0609)

William G. Barker, Consultant

Developing and Applying Analytical Tool for Evaluating Conversion of High-Occupancy-Vehicle Lane to High-Occupancy Toll Lane (06-2367)

William L. Eisele, Texas Transportation Institute

Mark W. Burris, Texas A&M University System

Hannah T. Wilner, Texas Transportation Institute

Michael J. Bolin, Texas Transportation Institute

Panel Discussion (P06-0713)

Patrick T. DeCorla-Souza, Federal Highway Administration

Heather Werdick, San Diego Association of Governments

Charles Fuhs, Parsons Brinckerhoff

Myron Swisher, Colorado Department of Transportation

Ginger Goodin, Texas Transportation Institute

Poster Sessions

243 (MMP06-001)

Congestion Pricing: Path to the Future

Patrick T. DeCorla-Souza, Federal Highway Administration; Mark F. Muriello, Port Authority of New York and New Jersey, presiding

Sponsored by Committee on Congestion Pricing

This poster session covers the entire range of pricing-related issues, including analysis and evaluation of its impacts, public involvement, technology and institutional issues, estimating revenues, and cost-benefit analysis. Researchers and practitioners will get new insights into

this rapidly advancing transportation management technique.

Applying Mental Accounting Concepts in Designing Pay-per-Mile Automobile Insurance Products (06-2976)

Allen Greenberg, Federal Highway Administration

Examining the Benefit of Accounting for Traffic Dynamics in Congestion Pricing Applications (06-2770)

Stephen Boyles, University of Texas, Austin

Satish V. Ukkusuri, Rensselaer Polytechnic Institute

S. Travis Waller, University of Texas, Austin

Kara M. Kockelman, University of Texas, Austin

Political Calculus of Congestion Pricing (06-2703)

David King, University of California, Los Angeles

Effectiveness of Toll Pricing Alternatives and Policies on Route Diversion and Travel Times for Specific Origin-Destination Pairs in a Highway Network (06-2440)

Haitham M. Al-Deek, University of Central Florida

Emam B. Emam, University of Central Florida

Srinivasa Chandra Chilakamarri, University of Central Florida

Jack Klodzinski, URS Corporation

Feasibility of Truck-Only Toll Lane Network in Atlanta, Georgia (06-2419)

Michael D. Meyer, Georgia Institute of Technology

Larry Saben, Parsons Brinckerhoff

Whitney Shephard, Parsons Brinckerhoff

Erik Steavens, Georgia State Road and Tollway Authority

Analysis of Value Pricing in a Medium-Sized City (06-2387)

Julian M. Benjamin, North Carolina Agricultural and Technical State University

Ryoichi Sakano, North Carolina Agricultural and Technical State University

Brent McKinney, Piedmont Authority for Regional Transportation

Asad J. Khattak, University of North Carolina, Chapel Hill

Daniel A. Rodriguez, University of North Carolina, Chapel Hill

Charla Gaskins, North Carolina Agricultural and Technical State University

Gaining Public Support for Congestion Charging: Lessons from Referendum in Edinburgh, Scotland (06-2047)

Tom Rye, Napier University, United Kingdom

Martin Gaunt, University of Edinburgh, United Kingdom

Steve Ison, Loughborough University, United Kingdom

Pay-As-You-Drive Vehicle Insurance: Implementation, Benefits, and Costs (06-1796)

Todd Alexander Litman, Victoria Transport Policy Institute, Canada

Valuing Expressways Under Time Pressures (06-1538)

Metin Senbil, Hiroshima University, Japan

Ryuichi Kitamura, Kyoto University, Japan

Can People Respond to Complex Pricing Signals? (06-1414)

Peter William Bonsall, University of Leeds, United Kingdom

Jeremy Shires, University of Leeds, United Kingdom

Equilibrium-Based Analysis on Effects of Japan's Highway Commuter Discount Policy in Nagoya Area (06-1409)

Jiang Qian Ying, Gifu University, Japan

Ryousuke Ando, Toyota Transportation Research Institute, Japan

Regional Study of Value Pricing in Dallas-Fort Worth Region (06-1370)

Jane Lisa Tiedeman, URS Corporation

Alan Howard Straus, URS Corporation

Study on Expressway Toll Pricing Based on Results of Social Experiments (06-1051)

Yalcin Alver, Kumamoto University, Japan

Credit-Based Congestion Pricing: Dallas-Fort Worth Application (06-0939)

Pradeep Gulipalli, Marketing and Planning Systems

Kara M. Kockelman, University of Texas, Austin

Public Perceptions of Pricing Existing Roads and Other Transportation Policies: Texas

Perspective (06-0934)

Kara M. Kockelman, University of Texas, Austin
Kaethe Podgorski, PBS&J
Michelle Bina, University of Texas, Austin
Shashank Gadda, University of Texas, Austin

Multiagent Congestion and Pricing Model (06-0539)

Xi Zou, University of Minnesota, Twin Cities
David Matthew Levinson, University of Minnesota, Twin Cities

Road Pricing and Relocation Decisions of Households (06-0409)

Dick Ettema, Utrecht University, Netherlands

Analytic Policy Framework for High-Occupancy Toll Lane Pricing (06-0335)

Rob Hranac, Cambridge Systematics, Inc.

Analysis of Malaysian Toll Road Public-Private Partnership Program and Recommendations for Policy Improvements (06-0210)

John Ward, IBI Group
Joseph M. Sussman, Massachusetts Institute of Technology

Public Transit and Road Pricing: Virtues of the Virtuous Circle (P06-1161)

Elena Safirova, Resources for The Future
Andrew Baglino, Resources for The Future
Peter Nelson, Resources for The Future
Winston Harrington, Resources for The Future
Abram Lipman, Resources for The Future

FAST Miles: Integrating Multimodal Strategies with Congestion Pricing to Eliminate Recurring Congestion (06-1304)

Patrick T. DeCorla-Souza, Federal Highway Administration

650 (MMP06-002)

Value Pricing and Congestion Pricing Projects: Lessons from Projects Under Way

Mark F. Muriello, Port Authority of New York and New Jersey; Patrick T. DeCorla-Souza, Federal Highway Administration, presiding
Sponsored by Committee on Congestion Pricing

Effect on Transit Ridership of Time-of-Day Pricing Initiative at Port Authority of New York and New Jersey Facilities (06-2825)

Mustafa Anil Yazici, Rutgers University

Pricing Comes to Minnesota: Attitudinal Evaluation of I-394 High-Occupancy Toll Lane Project (06-2486)

Frank Douma, University of Minnesota
Johanna P. Zmud, NuStats Partners LP
Tyler Patterson, University of Minnesota

Effect of London Congestion Charge on Road Casualties: Intervention Analysis (06-2188)

Robert B. Noland, Imperial College London, United Kingdom
Mohammed A. Quddus, Imperial College London, United Kingdom
Washington Y. Ochieng, Imperial College London, United Kingdom

So You Want To Make a High-Occupancy Toll Lane? Project Manager's Guide for High-Occupancy-Vehicle-to-HOT Lane Conversion (06-1857)

Myron Swisher, Colorado Department of Transportation
David H. Ungemah, Texas Transportation Institute

Equity and High-Occupancy Toll Lanes: Literature Review and Minnesotans' Perceptions About I-394 High-Occupancy Toll Lanes (06-1502)

Megan Mowday, Robert Charles Lesser & Company

Potential Single-Occupancy Vehicle Demand for High-Occupancy Vehicle Lanes: Results from Stated-Preference Survey of Travelers in High-Occupancy Toll Corridors

(06-1317)

Mark W. Burris, Texas A&M University System

Lei Xu, Wilbur Smith Associates

High-Occupancy Toll Lane Innovations: I-394 MnPASS (06-1265)

Kenneth Buckeye, Minnesota Department of Transportation

Impact of Congestion Charge on Retail: London Experience (06-0691)

Mohammed A. Quddus, Imperial College London, United Kingdom

Alon Carmel, GLA Economics, United Kingdom

Michael G.H. Bell, Imperial College London, United Kingdom

Hampton Roads Regional Value Pricing Feasibility Study (P06-1124)

Marsha Whitley Fiol, Virginia Department of Transportation

I-25 High-Occupancy Toll Lane Implementation Toll Project in Denver, Colorado (P06-1125)

David H. Ungemah, Texas Transportation Institute

Myron Swisher, Colorado Department of Transportation

Assessment of Value Pricing Best Practices in California (P06-1126)

Megan Smirti, University of California, Berkeley

Building on Success: Managed Lanes in the San Diego Region (P06-1127)

Ray Traynor, San Diego Association of Governments

MnPass System Study (P06-1128)

John Doan, Minnesota Department of Transportation

Maryland I-95, Section 100 (P06-1129)

Melissa Williams, Maryland Transportation Authority

Maryland Intercounty Connector (P06-1130)

Melissa Williams, Maryland Transportation Authority

Transitioning Barrier Toll Collection Systems to Open Road Tolling: Flow and Management Issues (P06-1131)

Jonathan Peters, City University of New York

Commuter Choice and Congestion-Based Pricing Program (P06-1132)

Randall Guensler, Georgia Institute of Technology

Illinois Tollway Congestion Relief Plan (P06-1133)

Leanne P. Redden, Illinois State Toll Highway Authority

Eugene Ryan, Wilbur Smith Associates

Expansion of Variable Pricing to Heavy Vehicles in Lee County, Florida (P06-1134)

Chris R. Swenson, CRSPE, Inc.

I-10 Katy Freeway Reconstruction Program (P06-1135)

Greg Oldfield, Texas Department of Transportation

Developing a Comprehensive Pricing Evaluation Model for Managed Lanes (P06-1136)

Jianling Li, University of Texas, Arlington

Evaluation of Traffic Impacts of New Jersey Turnpike Time-of-Day Pricing Program and E-ZPass Usage (06-2553)

Ozlem Yanmaz-Tuzel, Rutgers University

Evaluation of the New Jersey Turnpike Time-of-Day Pricing: Estimation of Delays and Emissions Using Microscopic Traffic Simulation (P06-1139)

Kaan Ozbay, Rutgers University

Sandeep Mudigonda, Rutgers University

Bekir Oguz Bartin, Rutgers University

Ozlem Yanmaz-Tuzel, Rutgers University

Jose Holguin-Veras, Rensselaer Polytechnic Institute

Impacts of Time-of-Day Pricing Initiative on Car and Truck Movements at Port Authority of New York and New Jersey Facilities (06-2548)

Ozlem Yanmaz-Tuzel, Rutgers University

Workshops

Congestion Pricing from Soup to Nuts: Leveraging Federal Opportunities and Managing Expectations

Mark F. Muriello, Port Authority of New York and New Jersey, presiding

Sponsored by Committee on Congestion Pricing

This workshop is designed for both practitioners and researchers to provide an understanding of current congestion pricing issues facing states and regions and offer information on new federal opportunities in SAFETEA-LU, including the Value Pricing Program, the Express Lane Demonstration Program, the Interstate System Construction Toll Pilot Program, and HOV to HOT Lane Conversion.

In addition, the workshop includes information on helping to manage the expectations of policy leaders and citizens on the financial and travel demand management (TDM) potential of pricing projects; practical solutions to addressing technical, policy, institutional, and political issues related to congestion pricing strategies; and opportunities to receive advice from experts and practitioners in attendance on issues related to individuals' projects.

Published Meetings

MMM06-008

ABE25(1)

[Lee W. Munnich](#), University of Minnesota, presiding

Sponsored by Committee on Congestion Pricing

Outreach Subcommittee Meeting, ABE25(1)

MMM06-009

Congestion Pricing Committee

[Patrick T. DeCorla-Souza](#), Federal Highway Administration; [Mark F. Muriello](#), Port Authority of New York and New Jersey, presiding

Sponsored by Committee on Congestion Pricing

Full Committee

MMM06-031

ABE25(2)

[Stephen S Fitzroy](#), Fitzroy Associates, presiding

Sponsored by Committee on Congestion Pricing

Pricing Economic Subcommittee, ABE25(2)

MMM06-035

ABE25(3)

[William Stockton](#), Texas Transportation Institute, presiding

Sponsored by Committee on Congestion Pricing

Multi-modal Pricing Implementation Subcommittee, ABE25(3)

ABE25 Cosponsored Sessions (only editable by the primary committee sponsor)

MMS06-052

Monday, January 23, 2006, 1:30pm- 3:15pm, Hilton, Lincoln East

Incidence of Taxation and Other Fees for Highway Users: What's the Equity Balance?

[Michael F. Lawrence](#), Jack Faucett Associates, Inc., presiding

Sponsored by Committee on Taxation and Finance; Committee on Transportation Economics; Committee on Congestion Pricing

Substantial changes in the tax and finance structure of highways over the past decade may have greatly altered the equity relationship in user fees. Federal versus state funds, local option taxes, sales taxes, tolls, debt finance, and other structure changes should be considered. This

session explores the current state of knowledge in highway user equity at the federal and state levels, the impact of new finance mechanisms on user groups, and flaws in the current rate structure.

Defining Our Terms: Efficiency and Equity (P06-0702)

Michael F. Lawrence, Jack Faucett Associates, Inc.

Shift to Local Taxes for Transportation Funding: Less Efficiency and Less Equity (P06-0788)

Martin Wachs, University of California, Berkeley

Improving Equity with Sensible Transportation Finance (P06-0790)

Will Kempton, California Department of Transportation

Equity Considerations in State Highway Finance (P06-0791)

John Merriss, Oregon Department of Transportation

Randall Johnston Pozdena, ECONorthwest

Developing Equitable Transportation Funding Model (P06-0792)

John V. Wells, U.S. Department of Transportation